

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 April 2004 (08.04.2004)

PCT

(10) International Publication Number
WO 2004/029896 A3

(51) International Patent Classification⁷: **G06F 3/00**

(21) International Application Number:
PCT/IB2003/003998

(22) International Filing Date:
17 September 2003 (17.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
102 45 354.3 27 September 2002 (27.09.2002) DE

(71) Applicant (for DE only): **PHILIPS INTELLECTUAL
PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-
damm 94, 20099 Hamburg (DE).

(71) Applicant (for AE, AG, AL, AM, AT, AU, AZ, BA, BB, BE,
BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CY, CZ, DK,

DM, DZ, EC, EE, ES, FI, FR, GB, GD, GE, GH, GM, GR,
HR, HU, ID, IE, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, SY, SZ, TJ, TM, TN, TR, TT, TZ, UA, UG,
UZ, VC, VN, YU, ZA, ZM, ZW only): **KONINKLIJKE
PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoud-
seweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

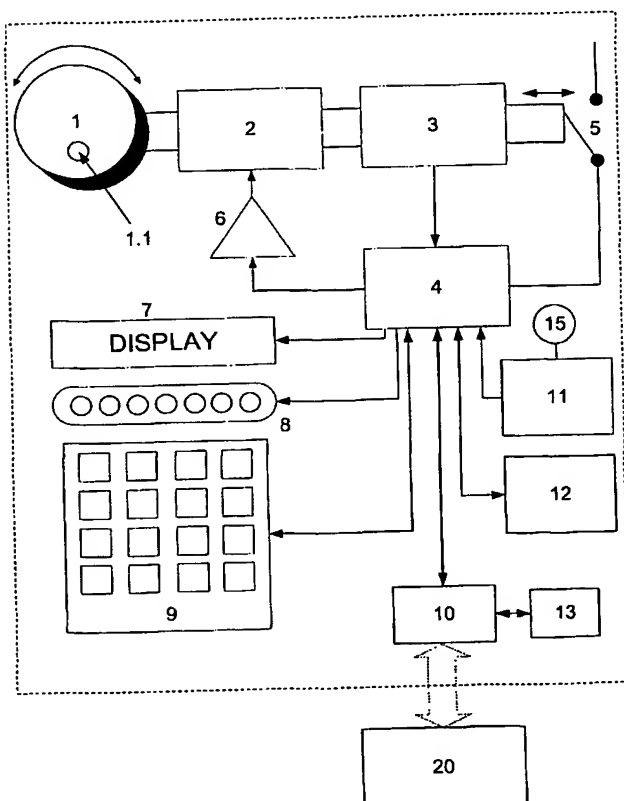
(75) Inventor/Applicant (for US only): **WENDT, Matthias**
[DE/DE]; c/o Philips Intellectual Property & Standards
GmbH, Weisshausstr. 2, 52066 Aachen (DE).

(74) Agent: **MEYER, Michael**; Philips Intellectual Property &
Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,

[Continued on next page]

(54) Title: **HAPTIC REMOTE CONTROL**



(57) Abstract: The invention relates to a remote control which is improved to such an extent that it comprises an operating element (1) which is provided to transmit tactile information via the operating element (1), which information is adjustable by a user (20) and/or controllable by a control unit (4).

WO 2004/029896 A3



LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) **Date of publication of the international search report:**
30 September 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

Int. Application No.
PCT/03/03998

82528931

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F3/00

Rece PTO 23 MAR 2005

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 411 934 B1 (MOELLER CARSTEN-UWE ET AL) 25 June 2002 (2002-06-25) the whole document	1-4,6-11
X	DE 200 14 425 U (IMMERSION CORP) 4 January 2001 (2001-01-04) page 6, line 21 - page 9, line 2 page 13, line 5 - page 15, line 13 page 38, line 3 - page 40, line 2 page 42, line 3 - page 44, line 25 figures 1,9	1-12
X	US 2002/095224 A1 (BEAMER JONATHAN L ET AL) 18 July 2002 (2002-07-18) paragraphs '0034!', '0037!', '0038!', '0040!', '0042!', '0043!', '0045!', '0046!', '0050!', '0051!', '0056!', '0057!', figure 1	1-3,5-12

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *&* document member of the same patent family

Date of the actual completion of the international search

13 July 2004

Date of mailing of the international search report

22/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Masche, C

INTERNATIONAL SEARCH REPORT

International Application No.

03/03998

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6411934	B1	25-06-2002	DE 19608869 A1	11-09-1997
			AT 218455 T	15-06-2002
			DE 59707381 D1	11-07-2002
			EP 0794089 A2	10-09-1997
			JP 3312372 B2	05-08-2002
			JP 9244866 A	19-09-1997
<hr/>				
DE 20014425	U	04-01-2001	DE 20014425 U1	04-01-2001
			JP 2001109558 A	20-04-2001
			US 2004032395 A1	19-02-2004
			US 6636197 B1	21-10-2003
<hr/>				
US 2002095224	A1	18-07-2002	US 6343349 B1	29-01-2002
			US 6252583 B1	26-06-2001
			US 6300936 B1	09-10-2001
			US 2004104924 A1	03-06-2004
			AU 4701000 A	17-11-2000
			AU 4701100 A	17-11-2000
			DE 10082696 T0	31-01-2002
			GB 2353116 A ,B	14-02-2001
			WO 0067245 A1	09-11-2000
			WO 0067246 A1	09-11-2000
			AU 1391199 A	07-06-1999
			EP 1036390 A1	20-09-2000
			GB 2348352 A ,B	27-09-2000
			US 2002138562 A1	26-09-2002
			WO 9926230 A1	27-05-1999
			US 6161126 A	12-12-2000
			US 6125385 A	26-09-2000
			US 6448977 B1	10-09-2002
			US 6353850 B1	05-03-2002
			US 2003063064 A1	03-04-2003